



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
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सं० 7] नई दिल्ली, शनिवार, फरवरी 16, 1980 (माघ 27, 1901)  
No. 7] NEW DELHI, SATURDAY, FEBRUARY 16, 1980 (MAGHA 27, 1901)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE BRANCH

NEW DELHI

#### SPECIAL NOTICE

The following holidays will be observed by the Patent Office Branch, New Delhi during the year 1980\*

Name of Festival	Day of the week	Date
Republic Day	Saturday	26th January.
Holi	Sunday	02nd March.
Ramnavami	Monday	24th March.
Mahavira Jayanti	Saturday	29th March.
Good Friday	Friday	04th April.
Buddha Purnima	Wednesday	30th April.
*Id-ul-Fitr	Wednesday	13th August
Independence Day	Friday	15th August.
Janamashtami	Monday	01st September.
Mahatma Gandhi's Birthday	Thursday	02nd October.
Dussehra	Friday	17th October.
Dussehra	Saturday	18th October.
Dussehra	Sunday	19th October.
*Id-uz-Zuha (Bakrid)	Monday	20th October.
Diwali (Dipawali)	Friday	07th November.
*Muhurram	Wednesday	19th November.
Guru Nanak's Birthday	Saturday	22nd November.
Christmas Day	Thursday	25th December.

\*Subject to change depending on appearance of the Moon.

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 16th February 1980

APPLICATION FOR PATENTS FILED AT THE  
HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

10th January, 1980

- 33/Cal/80. P. O. Henk and P. A. Fischer. Lead salt electric storage battery.
- 34/Cal/80. Mitsubishi Denki Kabushiki Kaisha. Lightning arrester device for power transmission line.
- 35/Cal/80. Tenax Maskin AB. Plaster products and a process for the production thereof.
- 36/Cal/80. Westinghouse Electric Corporation. Slot wedges for dynamoelectric machines.
- 37/Cal/80. Hoechst Aktiengesellschaft. Use of oxalkylated novolaks as preparation agents for disperse dye-stuffs and preparations made with said agents.
- 38/Cal/80. United Technologies Corporation. Composite wind turbine blade spart mandrel and method of fabricating.
- 39/Cal/80. T. V. Bommel. D. C. Voltage converter.

11th January, 1980

- 40/Cal/80. Fosroc International Limited. Pumping of aqueous slurries. (January 12, 1979).

14th January, 1980

- 41/Cal/80. R. Fujita. Input means for handwritten characters, figures or the like.
- 42/Cal/80. Intercane Systems, Inc. Methods and apparatus for forming boards from plant fibers.
- 43/Cal/80. Monsanto Company. Flowable herbicides.
- 44/Cal/80. Lucas Industries Limited. Fuel system for engines. (October 5, 1979).
- 45/Cal/80. Lucas Industries Limited. Fuel system for engines. (October 5, 1979).
- 46/Cal/80. Sanac Societa per Azioni Refrattari Argille Caolini. Improved refractory brick with metallic coating.
- 47/Cal/80. Cassella Aktiengesellschaft. Aqueous dyestuff formulation, a process for its preparation and its use for dyeing and printing.
- 48/Cal/80. Beloit Corporation. Adjustable rod holder for metering rod coaters.
- 49/Cal/80. Gopeswar Saha. Improvements in or relating to a process of making water resistant common clay bodies.

15th January, 1980

- 50/Cal/80. Lucas Industries Limited. A method of joining a pair of metal parts. (January 16, 1979).
- 51/Cal/80. Avtex Fibers Inc. Viscose rayon and method of making same.
- 52/Cal/80. H. M. Bowman. Sectional ingot mold.
- 53/Cal/80. E. I. DU Pont DE Nemours and Company. Non-electric delay detonator.
- 54/Cal/80. Fertilizer (Planning & Development) India Ltd. Improved process for the manufacture of sodium dichromate from chromite ore or chromite containing slag.
- 55/Cal/80. D. R. R. Sastri. Domestic LPG cylinders with reserve capacity for burning LPG gas.

16th January, 1980

- 56/Cal/80. Union Carbide India Limited. Process for the production of 2-ethyl hexyl acetate.
- 57/Cal/80. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Apparatus for producing a bound yarn.
- 58/Cal/80. Naphtachimie S.A. Olefin polymers and their uses.
- 59/Cal/80. Siemens Aktiengesellschaft. The improvement of accuracy of digital-analogue or analogue-digital conversion.
- 60/Cal/80. N. V. Kudva. A process for the recovery of usable coal from coal-mill rejects.

APPLICATIONS FOR PATENTS FILED AT THE  
(BOMBAY BRANCH)

22-12-1979

- 359/BOM/1979. Narhar Mukund Godbole, Self Adjusting Night Latch.

26-12-1979

- 360/BOM/1979. Hasmukh P. Shah, Manufacture of Corks.

27-12-1979

- 361/BOM/1979. Nitin Shamrao Joshi, Double Acting internal combustion engine Directly generating electrical energy.

29-12-1979

- 362/BOM/1979. Nikhil Vinayak Marathe, Telephone Call Meter.

31-12-1979

- 363/BOM/1979. Sarabhai Research Centre, A process for the preparation of substituted 1, 2-cyclopentanone-naphthalenes.

1-1-1980

- 1/BOM/1980. K. N. Sundara Rama Reddy, Stepless Hydrostatic transmission with variable over drive for fuel economy and driving comfort.

5-1-1980

- 2/BOM/1980. Haribhai Arjanbhai Patel, Automatic circular bandsaw blade sharpening machine.
- 3/BOM/1980. Larsen & Toubro Limited, An improved electromagnetic relay such as contactor.

APPLICATION FOR PATENTS FILED AT THE  
(MADRAS BRANCH)

31st December, 1979.

- 232/Mas/79. P. G. Leelamma. A device for cutting and trimming hair.

1st January, 1980

- 1/Mas/80. L. Paiva. Improvements in or relating to curtain track for doors, windows, and the like openings.

2nd January, 1980

- 2/Mas/80. Desai Technical Services. "CYCLONOME-T" which are suitable as living structures particularly for cyclonic prune areas based on integrated monolythic structure capable of absorbing wind pressure without disturbing the members of the house as it is now being felt in the existing known device of existing houses.

4th January, 1980

- 3/Mas/80. I. C. Padmanabhan. Novval Drum Tape Recorder.

8th January, 1980

- 4/Mas/80. B. Anilkumar. Fate and Will—an Indoor Game.

9th January, 1980

- 5/Mas/80. G. Venkataramanan. Improvements in or relating to "Weather Proof Roofing System."  
 6/Mas/80. Lucas Industries Ltd. Improvements in Friction Pad Assemblies for Rail Vehicle Brakes. (January 18, 1979.)  
 7/Mas/80. Lucas Industries Ltd. Control Valve Assemblies. (January 22, 1979.)  
 8/Mas/80. Lucas Industries Ltd. Vehicle Load Sensing Arrangement. (January 16, 1979.)

10th January, 1980

- 9/Mas/80. S. M. Shunmugavel. A Fluid Level Indicator.  
 10/Mas/80. B. S. V. Naidu. A Machine to print multi-colour sarees with Pallu and body simultaneously.

11th January, 1980

- 11/Mas/80. Desai Technical Services. "CYCLONOME-II" which are suitable as living structures particularly for cyclonic prune areas based on integrated Monolithic Structure capable of absorbing wind pressure without disturbing the members of the house as it is now being felt in the existing known device of existing houses.

## ALTERATION OF DATE

147396.  
377/Cal/76. Ante-dated 9th June, 1976.  
 147397.  
378/Cal/76. Ante-dated 9th June, 1976.  
 147398.  
379/Cal/76. Ante-dated 9th June, 1976.  
 147399.  
380/Cal/76. Ante-dated 9th June, 1976.  
 147404.  
335/Cal/78. Ante-dated 19th September, 1975.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 172B. 147393.  
Int. Cl.-D01h 1/00,

A METHOD FOR THE PRODUCTION OF SPUN THREAD USING AN OPEN-END SPINNING MACHINE AND AN APPARATUS FOR PERFORMING THE METHOD.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESellschaft, OF FRIEDRICH-EBERT-STRASSE 84, 8070, INGOLSTADT, WEST GERMANY.

Inventors : PETER ARTZT, ROLF FUSE, GERHARD EGBERS AND SOHRAB TABIBI

Application No. 59/Cal/77 filed January 15, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims.

A method for the production of uniform spun thread using an open-end spinning machine, in which the thread is continuously passed from spinning chamber to bobbin receiving the thread and the thread is passed through a zone where the defect is rectified by measuring some variable property and rectification is done through the measurement value converted into an electrical thread signal, characterised in that the thread signal obtained is electrically multiplied by a signal which is of predetermined frequency and is derived from the spinning machine, and the frequency signal thus obtained is filtered, and undergoes a pulse-shaping process, whereupon the sequence of shaped pulses is integrated and is compared with a predetermined threshold value signal derived manually or from a part of the machine whereby defective operation of a spinning unit is detected by an increase in the integrated difference frequency signal compared with the threshold value signal whereupon operation of said spinning unit is discontinued and said defective operation is rectified for instance by cleaning the rotor.

Comp. Specn. 18 Pages. Drg. 2 Sheets.

CLASS 40F &amp; 139A.

147394.

Int.-Cl.-C09c 1/48, B01j 1/00.

## APPARATUS FOR PRODUCING CARBON BLACK.

Applicant : ASHLAND OIL, INC., OF P.O. BOX 391, ASHLAND, KENTUCKY 41101, U.S.A.

Inventor : GARY ALAN CHESNUTT.

Application No. 1238/Cal/77 filed August 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An injection assembly for introducing a normally liquid hydrocarbon feedstock into a carbon black producing furnace, which comprises : a pipe shroud member having an upstream and downstream closure end; a feedstock supply pipe concentrically disposed within said shroud member adapted to be rotatably and longitudinally positioned therein and whose upstream end projects beyond the upstream closure end of the shroud member; a cylindrical manifold rigidly attached to and in open communication with the downstream end of said feedstock supply pipe and the header end of which is provided with a centrally located circular port and a plurality of like ports circumferentially disposed thereabout; a metallic feedstock supply tube rigidly connected to and in axial alignment with said centrally located circular port and projecting beyond the shroud member downstream closure end; and metallic feedstock supply tube rigidly connected to each of said circumferentially disposed ports via a segment of metallic flex tube the combined length thereof being about that of said concentrically disposed feedstock supply tube; and spreader means associated with said shroud member downstream closure end accommodating the longitudinal passage of the circumferentially disposed feedstock tubes but adapted to permit an axial extension of said tubes there through to be radially extended upon rotation of said feedstock supply pipe.

Comp. Specn. 12 Pages. Drg. 2 Sheets.

CLASS 141D &amp; 198B.

147395.

Int. Cl.-B03d 1/04, 3/00, 7/00.

## FROTH FLOTATION METHOD FOR THE BENEFICIATION OF PHOSPHATE ORE.

Applicant : INTERNATIONAL MINERALS & CHEMICAL CORPORATION, IMC PLAZA, LIBERTYVILLE, ILLINOIS, NEW YORK, U.S.A.

Inventor : ROBERT EDWARD SNOW.

Application No. 331/Cal/78 filed March 27, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims—No drawings.

A method for beneficiating a phosphate ore having a particle size range of from about 325 mesh (about 44  $\mu$ ) to about 16 mesh (about 991  $\mu$ ), containing substantially discrete particles of apatite and an alkaline earth metal carbonate minerals impurity, and containing less than about 20 wt. % siliceous minerals, by a froth flotation process, which comprises; conditioning the phosphate ore at an apatite—reagentizing pH between 3.5 and 9.0 in an aqueous conditioning & slurry containing an apatite—collecting cationic reagent as herein described in an amount of from about 0.2 to about 5.0 lb per ton (about 0.1 to about 2.5g per kg) of phosphate ore at a concentration of from about 0.04 to about 7.0 g per liter of water in the conditioning slurry, and containing a normally liquid hydrocarbon at a weight to weight ratio of hydrocarbon to cationic reagent of from about 0.5 : 1 to about 7 : 1, thereby forming a reagentized phosphate ore; the slurry optionally containing a source of fluoride ions; and subjecting the reagentized phosphate ore to a froth flotation, wherein a substantially greater amount of the apatite from the phosphate ore is recovered in the froth concentrate and a substantially greater amount of the alkaline earth metal carbonate impurity is rejected in the underflow tailings.

Compl. Specn. 28 Pages. Drg. Nil.

CLASS 71B & C. 147396.  
Int. Cl.-E02f 3/00.

## TRAVERSING CARRIAGE.

*Applicant* : LITTON SYSTEMS, INC., OF 711 UNION BLVD, TOTOWN, N.J. 07511, UNITED STATES OF AMERICA.

*Inventor* : FRANK X CONNELLY.

Application No. 377/Cal/78 filed April 6, 1978.

Division of Application No. 1003/Cal/76 filed June 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims.

A bucket wheel reclaimer comprising: (a) a main frame; (b) said main frame comprising a pair of sides and an open, box-like truss joining said sides together; (c) a plurality of running surfaces secured to said sides; (d) a traversing carriage; (e) a bucket wheel rotatably mounted on said carriage and encircling said main frame wherein (f) said traversing carriage includes a deck with wheels at each corner for engaging first ones of said running surfaces as said carriage moves back and forth across said main frame; and (g) said traversing carriage further includes guide wheels secured beneath said deck to engage other ones of said running surfaces in a plane perpendicular to the plane of contact between said wheels and said first one of said running surfaces.

Comp. Specn. 27 Pages. Drg 11 Sheets.

CLASS 71B & C. 147397.  
Int. Cl.-E02f 3/00, 3/24.

## BUCKET WHEEL.

*Applicant* : LITTON SYSTEMS, INC., OF 711 UNION BLVD, TOTOWN, N. J. 07511, UNITED STATES OF AMERICA.

*Inventor* : FRANK X CONNELLY.

Application No. 378/Cal/78 filed April 6, 1978.

Division of Application No. 1003/Cal/76 filed June 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

A bucket wheel for a bucket wheel reclaimer comprising: (a) an inner member of annular configuration; (b) an outer member of an annular configuration which is larger in diameter than said inner member and is disposed concentric and aligned with said inner member; (c) radially extending wall means interconnecting said inner member and said outer member in spaced relationship to form wheel means; (d) a plurality of

spaced and aligned apertures extending radially through said annuli; (e) a plurality of removable bucket units each including a scoop with a plurality of walls defining a body extending therefrom; and (f) fastening means joining said removable bucket units to said wheel means to secure each bucket unit in position thereon with its respective body extending through said aligned apertures.

Comp. Specn. 23 Pages. Drg. 11 Sheets.

CLASS 71B & C. 147398.  
Int. Cl.-E02f 3/00, 3/24.

## BELT DRIVE FOR BUCKET WHEELS

*Applicant* : LITTON SYSTEMS, INC., OF 711 UNION BLVD, TOTOWN, N.J. 07511, UNITED STATES OF AMERICA.

*Inventor* : FRANK X CONNELLY.

Application No. 379/Cal/78 filed April 6, 1978.

Division of Application No. 1003/Cal/76 filed June 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

A bucket wheel reclaimer comprising, in combination (a) a main frame; (b) a traversing carriage mounted for movement back and forth across said main frame; (c) a bucket wheel having a plurality of buckets rotatably mounted on said carriage and encircling said main frame; and (d) drive means including motor means mounted on said traversing carriage; (e) said drive means further including at least one belt that is entrained about the periphery of said bucket wheel for rotating said bucket wheel when said motor means is operated.

Comp. Specn. 24 Pages. Drg. 11 Sheets

CLASS 71B & C. 147399.  
Int. Cl.-E02f 3/00, 3/24.

## DRIVE FOR TRAVERSING CARRIAGE.

*Applicant* : LITTON SYSTEM, INC., OF 711, UNION BLVD, TOTOWN, N.J. 07511, UNITED STATES OF AMERICA.

*Inventor* : FRANK X CONNELLY.

Application No. 380/Cal/78 filed April 6, 1978.

Division of Application No. 1003/Cal/76 filed June 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

A bucket wheel reclaimer comprising; (a) a main frame; (b) a pair of spaced running surfaces provided on a predetermined face of said main frame; (c) a traversing carriage mounted on said running surfaces for movement back and forth across said main frame; (d) a bucket wheel rotatably mounted on said carriage; (e) motor means mounted on said traversing carriage to rotate a drive sprocket and advance said carriage along said main frame; (f) a chain extending along only one of said running surfaces of said main frame and passing about said drive sprocket; (g) spaced anchors on said main frame for maintaining the opposite ends of said chain fixed distance apart; and (h) guide means on said carriage and said other of said running surfaces for guiding said traversing carriage as it moves across said main frame.

Comp. Specn. 23 Pages. Drg. 11 Sheets.

CLASS 71B & C. 147400.  
Int. Cl.-E02f 3/00.

## BUCKET WHEEL RECLAIMER.

*Applicant* : LITTON SYSTEMS, INC., OF 711 UNION BLVD, TOTOWA, N.J. 07511, UNITED STATES OF AMERICA.

*Inventor* : FRANK CONNELLY.

Application No. 1003/Cal/76 filed June 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

# 12 Claims.

A bucket wheel reclaimer comprising: (a) a main frame comprising a pair of spaced sides; (b) a traversing carriage mounted for movement back and forth across said main frame; (c) a bucket wheel rotatably carried by said carriage and encircling said main frame; (d) said bucket wheel having a predetermined internal diameter and being carried by said carriage for rotation about a predetermined axis of rotation; (e) said spaced sides of said main frame each constituting a beam type section having an upper extremity disposed above said predetermined axis of rotation and a lower extremity disposed below said axis of rotation; (f) cross-bracing interconnecting said sides in spaced relationship and disposed proximate said upper extremities of said sides; and (g) a material conveyor having an upper run and a lower run and extending through said main frame and supported by same so that its upper run is disposed above said cross-bracing and proximate the upper extremities of said pair of spaced sides.

Comp. Specn. 29 Pages. Drg. 11 Sheets.

CLASS 128F.

147401.

Int. Cl.-A61m 3/00.

## A HYDRAULIC-POWERED HYPODERMIC JET INJECTION INSTRUMENT.

*Applicant*: VERNITRON CORPORATION, AT 175 COMMUNITY DRIVE, GREAT NECK, NEW YORK 11024, USA.

*Inventor*: AARON ISMACH.

Application No. 180/Del/78 filed March 8, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

# 11 Claims.

A hydraulic-powered hypodermic jet injection instrument comprising:

a body with a hydraulic chamber and an inoculating fluid chamber;

a hydraulic piston reciprocally mounted in said hydraulic chamber;

spring means for biasing said hydraulic piston into a forward position in said hydraulic chamber;

an inoculating fluid plunger reciprocally mounted in said inoculating fluid chamber;

mechanical means connecting said inoculating fluid piston to said hydraulic piston so that said inoculating fluid piston moves in response to movement of said hydraulic piston;

a foot operated hydraulic pump constituting a source of hydraulic fluid under pressure;

inlet conduit means providing a path for flow of said hydraulic fluid from said pump and through a portion of said body to said hydraulic chamber;

check valve means at said pump in said conduit means presenting return of said hydraulic fluid from said hydraulic chamber to said pump, whereby pressure on said fluid is raised when said foot operated hydraulic pump is operated to overcome forward bias on said hydraulic piston; and

further valve means in said body for releasing said hydraulic fluid from said hydraulic chamber to release said forward bias on said piston to actuate said hydraulic plunger for ejecting said inoculating fluid from said inoculating chamber.

Comp. Specn. 19 Pages. Drg. 2 Sheets.

CLASS 6A<sup>2</sup> & 50E<sup>2</sup> & F.

147402.

Int. Cl.-F25d 17/08.

## IMPROVEMENTS IN RECIPROCATING COMPRESSORS

*Applicant*: CARRIER CORPORATION, OF CARRIER TOWER, P.O. BOX 1000, SYRACUSE, NEW YORK 13201, UNITED STATES OF AMERICA.

*Inventors*: HUBERT RICHARDSON, JR. AND THOMAS WILLIAM CARTER.

Application No. 2249/Cal/76 filed December 22, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

# 5 Claims.

A reciprocating compressor operable to provide a high pressure fluid and having a first portion operating at suction pressure and a second portion operating at discharge pressure, the improvement comprising: conduit means to communicate the first portion operating at compressor suction pressure with the second portion operating at compressor discharge pressure; and valve means responsive to the temperature of said fluid to control the flow of fluid through said conduit means said valve means being in a normally open position when the temperature of the fluid is at a low temperature level to permit the flow of fluid from said second portion of said compressor to said first portion thereof; said valve means moving to a closed position to terminate flow of fluid through said conduit means as the temperature of the fluid increases due to continued operation of said compressor.

Comp. Specn. 10 Pages. Drg. 3 Sheets.

CLASS 9A.

147403.

Int. Cl.-C22c 11/00.

## METHOD OF MAKING AN ELECTRIC STORAGE BATTERY ELECTRODE STRUCTURE.

*Applicant*: CHLORIDE GROUP LIMITED, OF 52, GROSVENOR GARDENS, LONDON, SW1W 0AU, ENGLAND.

*Inventors*: NORMAN ERNEST BAGSHAW AND JOHN MCWHINNIE.

Application No. 323/Cal/77 filed March 4, 1977.

Convention date March 5, 1976/(09011/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

# 8 Claims.

A method of making an electric storage battery electrode structure which comprises forming a lead-calcium-tin alloy comprising 0.075 to 0.13% by weight calcium, 0.005 to 0.99% by weight tin and 0.0001% to 0.1% by weight aluminum, the balance being substantially lead, casting the alloy to the required shape or to an intermediate shape and then fabricating the required electrode structure from the said intermediate shape.

Comp. Specn. 12 Pages. Drg. 1 Sheet.

CLASS 40F.

147404.

Int. Cl.-B01j 1/00.

## A PROCESS FOR CARRYING OUT A CHEMICAL REACTION AT AN ELEVATED TEMPERATURE AND REACTOR FOR CARRYING OUT THE SAME

*Applicant*: THAGARD TECHNOLOGY COMPANY, AT 2712 KELVIN AVENUE, IRVINE, STATE OF CALIFORNIA, UNITED STATES OF AMERICA.

*Inventor*: EDWIN MATOVICH.

Application No. 335/Del/78 filed May 5, 1978.

Division of Application No. 1924/Cal/75 filed 6th October, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

# 62 Claims.

A process for carrying out a chemical reaction at a temperature in excess of about 2300°F. where in reaction species are situated in a reaction zone defined by a fluid envelope of generally annular cross-section within a reactor tube, and radiant energy emitted by a radiation source outside the reactor tube is focussed onto the reaction species in the reaction zone, the wall of the reactor tube and the fluid

envelope both being substantially transparent to the radiation used, sufficient radiant energy being absorbed in the reaction zone to raise the temperature of the reaction species to sustain the chemical reaction.

Comp. Specn. 83 Pages. Drg. 20 Sheets.

CLASS 40A & 84A.

147405.

Int. Cl.-C101 3/00.

ENERGY RECOVERY IN CATALYTIC PROCESSES PROVIDING AN OFF GAS HAVING FUEL VALUE.

*Applicant*: IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1., ENGLAND.

*Inventor*: ALWYN PINTO.

Application No. 453/Del/77 filed December 13, 1977.

Convention date December 15, 1976/(52304/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims.

A catalytic process providing an off gas having fuel value which process comprises the stages of

(a) passing the gaseous reactants over a catalyst for the process;

(b) condensing and separating a liquid product; and

(c) passing out an off-gas comprising carbon monoxide and/or hydrogen;

and is characterised by supplementing power requirements with electricity generated by oxidising the off-gas in a fuel cell.

Comp. Specn. 13 Pages. Drg. 1 Sheet.

CLASS 32F2b + 40F.

147406.

Int. Cl.-C07d 31/06, 31/08, 31/20, B01j 11/32.

A PROCESS FOR THE PRODUCTION OF A MIXTURE OF 2-METHYL PYRIDINE AND 3-METHYL PYRIDINE.

*Applicant*: DEUTSCHE GOLD-UND SILBER-SCHEID-ANSTALT VORMALS ROESSLER, OF 9 WEISS-FRAUENSTRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT BESCHKE AND DR. HEINZ FRIEDRICH.

Application No. 75/Cal/78 filed January 19, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.—No drawings.

A process for the production of a mixture of 2-methyl pyridine and 3-methyl pyridine by catalytically reacting acrolein and acetone with ammonia in the gas phase, wherein the catalysts used are highly disperse aluminium silicates which contain from 3 to 30% by weight of aluminium oxide, and have a BET-surface of from 200 to 800 m<sup>2</sup>/g, a pore volume of from 0.4 to 1.0 cm<sup>3</sup>/g and a pore diameter of from 20 to 100 × 10<sup>-6</sup>cm.

Comp. Specn. 8 Pages. Drgs. Nil.

CLASS 32F2b & 40B.

147407.

Int. Cl.-C07d 31/06, 31/08, 31/20 B01j 11/32.

A PROCESS FOR THE PRODUCTION OF A MIXTURE OF PYRIDINE AND 3-METHYL PYRIDINE.

*Applicant*: DEUTSCHE GOLD UND SILBER-SCHIED-ANSTALT VORMALS ROESSLER, OF 9, WEISS-FRAUENSTRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

*Inventors*: HELMUT BESCHKE AND DR. HEINZ FRIEDRICH.

Application No. 76/Cal/78 filed January 19, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.—No drawings.

A process for the production of a mixture of pyridine and 3-methyl pyridine by catalytically reacting acrolein and acetaldehyde with ammonia in the gas phase, wherein the catalyst used are highly disperse aluminium silicates which contain from 3 to 30% by weight of aluminium oxide and which have a BET-surface of from 200 to 800 m<sup>2</sup>/g, a pore volume of from 0.4 to 1.0 cm<sup>3</sup>/g and a pore diameter of from 20 to 100 × 10<sup>-6</sup> cm.

Comp. Specn. 9 Pages. Drgs. Nil.

CLASS 107G.

147408.

Int. Cl.-F01p 3/20.

DUAL COOLING SYSTEM.

*Applicant*: CUMMINS ENGINE COMPANY, INC., OF COLUMBUS, INDIANA 47201, UNITED STATES OF AMERICA.

*Inventors*: RAMANUJAM RAJASEKHARAN, DENNIS OGDEN TAYLOR AND JAMES WRIGHT WRITILESEY.

Application No. 622/Cal/77 filed April 26, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A dual cooling system for circulating coolant along discrete paths while maintaining the coolant in said paths at predetermined temperature and pressure differentials, said system comprising segregated circuits for the coolant; coolant circulating pump means including a housing defining a pump chamber in each circuit; a rotatable partition means encompassed along its annular periphery by a segment of said housing extending axially of the axis of rotation of said housing extending axially of the axis of rotation of said partition means at a greater radial distance from the said axis than the annular periphery of said rotatable partition means, said rotatable partition means being in at least partial registration with said housing segment and cooperating therewith to form a common partition intermediate said chambers; impeller means extending radially of said axis of rotation and into said chambers from opposite surfaces of said partition means to effect coolant circulation within said circuits at the predetermined temperature and pressure differentials when said partition means is rotated; means to effect rotation of said partition means; heat exchanger means disposed within each circuit; and coolant make-up means common to said circuits and connected to a suction side of each pump chamber to replenish any coolant migrating between said chambers, whereby said rotatable partition means is adapted to be positioned within said housing along a predetermined axis of rotation, and being characterized by said common partition having a restrictive passage defined between the annular periphery of said rotatable partitions means and the encompassing housing segment for limited coolant migration between said chamber in a direction substantially parallel to the axis of rotation of said partition means.

Comp. Specn. 17 Pages. Drg. 2 Sheets.

CLASS 38.

147409.

Int. Cl.-F16g 15/12.

CHAIN LINKS FOR PROTECTING ELONGATE FLEXIBLE SUPPLY COMPONENTS.

**Applicant :** COAL INDUSTRY (PATENTS) LIMITED,  
OF HOBART HOUSE, GROSVENOR PLACE, LONDON  
SW1X 7AE, ENGLAND.

**Inventor :** KEVIN FITCHETT.

Application No. 329/Del/78 filed May 4, 1978.

Convention date May 10, 1977/(19553/77) U.K.

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Delhi Branch.

Appropriate office for opposition Proceedings (Rule 4,

#### 11 Claims.

A link adapted to be pivotally attached to adjacent links to form a chain for protecting at least one elongate flexible supply component leading to equipment which in operation repeatedly traverses to and from, *characterised in that* the link comprises two elements which when connected define a passageway for said at least one elongate flexible supply component and which can be at least partially disconnected to permit access to the passageway, both the elements being capable of being pivotally attached to the elements of adjacent links.

Comp. Specn. 15 Pages. Drg. 5 Sheets.

#### OPPOSITION PROCEEDINGS

The opposition entered by Tractel Tirfor India Private Limited to the grant of patent on application No. 140553 made by Jagat Seth as notified in Part-III, Section-2 of the Gazette of India dated the 21st May, 1977 has been dismissed.

#### COMMERCIAL WORKING PATENTED INVENTIONS

The following patents in the field of Electrical Engineering are not being worked commercially in India as admitted by the patentees in the statement filed by them under Section 146(2) of the Patents, Act, 1970, in respect of Calendar year 1978 generally on account of want of requests for licences to work the Patented inventions.  
Persons who are interested to work commercially the said patents may contact the patentees for the grant of licences for the above purpose.

LIST No. I

S.No.	Patent No.	Date of filing the Patent	Name and address of the Patentee	Title of Invention
1	2	3	4	5
1	91772	17-01-1964	N.V. Phillips G.F. of Emmasingel, Eindhoven, Netherlands.	Improvement in or relating to photo sensitive devices of the kind comprising a layer of photo sensitive material vapour-deposited on a support and methods of manufacturing such devices.
2	91775	17-01-1964	Do.	Improvement in or relating to injection masers.
3	91863	22-01-1964	Do.	Improvement in or relating to methods of manufacturing photo-sensitive devices manufactured by these methods.
4	93334	28-04-1964	Do.	Improvement in or relating to composite semiconductor devices.
5	98973	12-04-1965	Do.	Improvements in or relating to welding wires for electric arc welding of steel in a protective gas atmosphere.
6	99007	13-04-1965	Do.	Improvements in or relating to core wires for Electric arc welding.
7	99243	28-04-1965	Do.	Improvements in or relating to semiconductor devices.
8	100703	20-07-1965	Do.	Improvements in or relating to a circuit arrangements for stabilizing against variations in temperature and supply voltage.
9	101469	06-09-1965	Do.	Improvements in or relating to high pressure mercury vapours halogen discharge lamps.
10	101571	14-09-1965	Do.	Improvements in or relating to semiconductor devices and circuits utilizing such devices.

#### PATENTS SEALED

129675 145261 145946 145999 146077 146116 146181 146216  
146230 146302 146323 146398 146422 146423 146434 146438  
146342 146450 146457 146458 146469 146470 146474

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

The amendments proposed by Australian Fertilizers Limited, in respect of patent application No. 143341 as advertised in Part III, Section 2 of the Gazette of India dated the 25th August, 1979 has been allowed.

(2)

The amendments proposed by Sir W. G. Armstrong Whitworth & Company (Engineers) Limited, in respect of application for patent No. 143574 advertised in Part III, Section 2 of the Gazette of India dated the 8th September, 1979 has been allowed.

(3)

The amendment proposed by Texaco Trinidad Incorporated in respect of patent application No. 145531 as advertised in Part III, Section 2 of the Gazette of India dated the 22nd September, 1979 has been allowed.

(4)

The amendment proposed by UBE Industries, Ltd., in respect of patent application No. 145965 as advertised in Part III, Section 2 of the Gazette of India dated the 29th September, 1979 has been allowed.

1	2	3	4	5
11	103692	31-01-1966	N.V. Philips G.F. of Emmasingel, Eindhoven, Netherlands	Improvement in or relating to circuit arrangement for producing a saw-tooth current.
12	107121	19-09-1966	Do.	Improvements in or relating to electron sources for an electron gun comprising cathode and a cap-shaped electrode.
13	107223	27-09-1966	Do.	Improvements in or relating to high voltage transistors.
14	107579	18-10-1966	Do.	Improvements in or relating to sodium vapour discharge lamps.
15	107796	01-11-1966	Do.	Improvements in or relating to circuit arrangements for producing a saw-tooth current through the field deflection coil of cathode ray tube.
16	108010	17-11-1966	Do.	Improvements in or relating to circuit arrangements for receiving electric signals.
17	108972	21-01-1967	Do.	Semiconductor devices embedded in a moulded insulating protective envelope and a method of manufacturing the same.
18	109394	20-02-1967	Do.	Photo sensitive lacquer and the use of this lacquer in manufacturing picture screens for C.R. Tubes.
19	109770	17-03-1967	Do.	Improvement in or relating to methods of manufacturing of semiconductor devices.
20	110127	07-04-1967	Do.	Semiconductor device and circuit arrangement comprising a semi conductor device.
21	111773	01-08-1967	Do.	Material for magnetic cores and magnetic cores using the same.
22	112588	30-09-1967	Do.	Methods of producing a semiconductor device and a semiconductor device produced by said method.
23	112727	09-10-1967	Do.	A circuit for transferring charge between two capacitors.
24	112813	18-10-1967	Do.	Method of manufacturing a semiconductor device and a semiconductor device manufactured by the said method.
25	114075	16-01-1968	Do.	Elongate high pressure mercury vapour discharge lamp.
26	114574	16-02-1968	Do.	Electric discharge lamp comprising container of densely sintered aluminium oxide.
27	115357	10-04-1968	Do.	Method of manufacturing a semiconductor device and semiconductor device obtained by carrying out said method.
28	115677	30-04-1968	Do.	Semiconductor device comprising an insulated gate field effect transistor and method of manufacturing the same.
29	115761	06-05-1968	Weston-Instruments Inc. of 614, Frelinghymysen Avenue, Newark, New Jersey, U.S.A.	Analog-to-digital convertor.
30	116060	23-05-1968	N.V. Philips G.F. of Emmasingel 29 Eindhoven, Holland.	Improvements in and relating to methods of manufacturing semiconductor devices.
31	116322	11-06-1968	Do.	Method of severing a semiconductor wafer and a severed semiconductor wafer provided by such method.
32	117024	30-07-1968	Do.	Filled welding wire for the electric arc welding in a protective gas atmosphere.
33	117285	16-08-1968	N.V. Philips G.F. of Emmasingel, Eindhoven, Netherlands.	Insulated gate field effect transistors.
34	117749	18-09-1968	Do.	Circuit arrangement comprising switching means for periodically interrupting a current supplied to an induction coil and a transformer for use in such circuit arrangements.



1	2	3	4	5
35	119356	09-01-1969	N.V. Philips G.F. of Emmasingel, Eindhoven, Netherlands.	Resilient suspension member for securing a colour selection electrode in a glass envelope of a cathode ray tube for displaying coloured television images.
36	120253	10-03-1969	Do.	Improvements in or relating to semiconductor device.
37	120527	24-03-1969	Do.	Integrated capacitor memory.
38	120774	07-04-1969	Do.	Method of providing an anti-implosion clamping band around the envelope of a television picture tube and television picture tube manufactured by means of same method.
39	121008	21-04-1969	Do.	Capacitor charge transferring device.
40	121110	28-04-1969	Do.	A method of manufacturing a magnetic core and a magnetic core manufactured thereby.
41	121892	18-06-1969	Do.	Semiconductor device.
42	121893	18-06-1969	Do.	Method of manufacturing a semiconductor device.
43	122154	07-07-1969	N.V. Philips G.F. of Emmasingel 29, Eindhoven, Holland.	Semi conductor device.
44	122175	08-07-1969	Mitsubishi Denbi K.K. of No. 12, Marunochi, 2-Chome, Chiyoda-Ku, Tokyo, Japan.	System for controlling D.C. Power.
45	122255	14-07-1969	N.V. Philips G.F. of Emmasingel 29, Eindhoven, Holland.	Colour television picture tube having a rectangular colour selection electrode.
46	122798	18-08-1969	Mitsubishi Denbi K.K. No. 12, Marunochi, 2-chome-Chiyoda-Ku, Tokyo, Japan.	System for controlling D.C. Power.
47	124065	17-11-1969	N.V. Philips G.F. of Emmasingel 29, Eindhoven, Holland.	Semi conductor device.
48	124820	13-01-1970	Do.	Switch box for a railway switch.
49	125534	02-03-1970	Legg (Industries) Limited, of Merridale Street, Wolverhampton, Staffordshire, England.	Automatic electric battery charging apparatus.
50	125713	12-03-1970	Snamprogetti S.P.A. of 16 Corso Venezia, Milan, Italy.	Device for the panoramic radiography of weldings in metal pipings.
51	126814	26-03-1970	Imperial Chemical Industries Limited of Millbank, London SW-1, England.	Anode assembly for electrolytic cells.
52	126815	26-03-1970	Do.	Do.
53	126877	01-06-1970	Gildeon petrous schoeman Yssel of "Sautas", P.O. Noordbrug, Potchef Stroom, Transvaal Province, Republic of South Africa.	Vehicle head lamp adjusting means.
54	126943	04-06-1970	Union Carbide Corporation of 270 Park Avenue, New York, State of New York-10017, U.S.A.	Leclanche dry cell with thick wall paste separator.
55	127032	11-06-1970	C.A.V. Limited, of Well Street, Birmingham 19, England.	Electric circuits for increasing initial rise in current in an inductor in the circuit.
56	127083	15-06-1970	Mitsubishi Denki Kabushiki Kaisha of No. 12, Marunouchi, 2-Chome, Chiyoda-Ku, Tokyo, Japan.	System for braking electric motor vehicles.
57	127088	15-06-1970	N.V. Philips G.F. of Emmasingel, Eindhoven, Netherlands.	Semiconductor device comprising an insulated gate field effect transistor.
58	127125	16-06-1970	Do.	Crystal support for a semiconductor crystal.
59	127358	01-07-1970	The Associated Electrical Industries Limited of 1 Stanhope Gate, London, W1A 1EH, England.	Protective relays.
60	127450	08-07-1970	RCA Corporation, of 30 Rockefeller Plaza, New York, New York, 10020, U.S.A.	Making duplicates of optical or sound recordings.
61	127546	15-07-1970	Siemens A.G. Berlin and Munich, West Germany.	Arrangements for measuring currents in high tension conductors.
62	127864	04-08-1970	R.C.A. Corporation, of 30 Rockefeller Plaza, New York, New York-10020, U.S.A.	Information recording media.

1	2	3	4	5
63	128442	15-09-1970	N.V. Philips G.F. of Emmasingel, Eindhoven, Netherlands.	Magnetic cores consisting of manganese-zinc, magnesium-copper ferrites and method of manufacturing the said cores.
64	128498	19-09-1970	Essex Group Inc. of 1601, Wall Street, Fort, Wayne, Indian., U.S.A.	Pressure sensitive combination switch and circuit breaker construction.
65	128535	22-09-1970	Rhone, Poulenc Industries, of 25, Quai Paul, Doumest, 92408, Courbevoie, France.	Electrolysis trough.
66	128669	30-09-1970	Chloride Batteries Australia Limited of 55 Bryant Street, Padstow, New South Wales, 2211, Commonwealth of Australia.	An intercell connector arrangement for multicell batteries.
67	128945	22-10-1970	BICC Limited, of 21, Bloomsbury street, London WC1BZON, England.	Improvements in electric cables.
68	128947	22-10-1970	BICC Limited, of 21, Bloomsbury street, London WC1BZON, England.	Improvements in electric cables.
69	129023	27-10-1970	Siemens A.G. of Berlin and Munich-West Germany.	Improvements in or relating to dividing network.
70	129112	04-11-1970	Joseph Lucas (IND) Ltd., of Great Kings Street, Birmingham, England.	Electromagnets.
71	129167	10-11-1970	Siemens A.G. of Berlin and Munich, West Germany.	A control arrangement.
72	129358	23-11-1970	Do.	Signal channel fault indicating systems.
73	129428	28-11-1970	Telefonaktiebolaget L.M. Ericsson, of S-126 25 Stockholm.	Electric thread shaped conductors.
74	129429	28-11-1970	Metallurgical process limited, of Trust Building, Frederick St. Nassen, Bahamas and Austral House, Basinghall Avenue, E.C. 2, London City England.	Electric thread shaped conductors.
75	129520	07-12-1970	Joseph Lucas (Ind.) Ltd., of Great Kings Street, Birmingham, England.	Rotary electrical machines.
76	129579	14-12-1970	IMI Kynoch Limited, of Kynoch Works, Witten Birmingham 6, Warwickshire, England.	Improvements in or relating to electrodes for use in electrolytic processes.
77	129600	15-12-1970	Westing house, Electric corporation of Pittsburgh, Pennsylvania, United States of America.	Improved fluorescent lamps.
78	129644	17-12-1970	Kawasaki Steel Corporation of 1-1 chome Kitawhoncho-Dari, Fubai-Ku-Kobe city, Japan.	Forming an electric insulating coating on the surface of silicon steel sheet.
79	129670	21-12-1970	Joseph Lucas (Ind.) Ltd., of Great Kings Street, Birmingham, England.	Electrical system for road vehicles.
80	129723	24-12-1970	RCA Corporation, of 30 Rock feller, Plaza, U.S.A.	A monopulse multimode feed system.
81	129851	06-01-1971	Mefina SA, of 5 Beaumont, Fribourg, Switzerland.	Push button switch.
82	129870	07-01-1971	Westinghouse Canada Limited, of 286, Sanford Avenue north, Hamilton, Ontario, Canada.	Calcium halophosphate "day light" phosphor for fluorescent lamp.
83(a)	129882	08-01-1971	Siemens A.G. of Berlin and Munich, West Germany.	A printed circuit board having a plurality of control channel on one side thereof.
83(b)	129899	11-01-1971	N.V. Philips G.F. of Emonasingel, Eindhoven, Netherlands.	Method of manufacturing a semiconductor device and semiconductor device obtained by using the method.
84	130070	27-01-1971	Siemens AG of Berlin and Munich, West Germany.	Manufacture of hollow bodies of semiconductor material.
85	130090	28-01-1971	Westinghouse Electric Corporation of Pittsburgh, Pennsylvania, U.S.A.	Fluorescent lamps.
86	130120	29-05-1971	N. Chakravarti of 639 block 'O' New Alipur, Calcutta-53, West Bengal, India.	Transmission tower or poles.
87	130218	09-02-1971	Siemens AG of Berlin and Munich, West Germany.	Terminal seal for insulated cables or conductors.
88	130283	16-02-1971	Siemens AG of Berlin and Munich, West Germany.	Pulse regenerator circuits for pulse code.

1	2	3	4	5
89	130285	16-02-1971	Siemens AG of Berlin and Munich, West Germany.	Signal channel combination systems and a polarisation diversity receiver system employing the same.
90	130364	25-02-1971	Westinghouse Air Brake Co. of Pittsburgh, Pennsylvania, U.S.A.	Automatic electric line coupler with removable contact unit in Railway Cars.
91	130586	16-03-1971	N. V. Philips G F of Emmasigne, Indhoven, Netherlands.	Cathode ray tube.
92	130688	23-03-1971	IMI Marston Limited, of Wabaston Road, Ford Houses, Wolverhampton, Staffordshire, England.	Improved electrodes.
93	130727	22-01-1972	(1) NIPPON HOSO KYOKAI OF2-1, 2-Chome, Jinnan, Shibuya-Ku, Tokyo, Japan. (2) TOKYO SHIBAURA ELECTRIC COMPANY LTD., of 72, Horikawa, Cho, Saiwai-Ku, Kowasaki-Shi, Japan.	Metal vapour discharge lamp.
94	130823	22-04-1971	Westinghouse Electric corporation of Pittsburgh, Pennsylvania, U.S.A.	Lighting units.
95	130920	08-04-1971	N. V. Philips GF of Emmasingel, Eindhoven Netherlands.	Transmitter for transmission of signals by pulse code modulation.
96	130988	14-04-1971	Globe-Union Inc. of 5757, N. Green Bay Avenue, Milwaukee, Wisconsin-53201, U.S.A.	Storage batteries.
97	131026	19-04-1971	RCA Corporation of 30 Rockefeller Plaza, New York, New York 10020, U.S.A.	TMO 1 mode exciter and multimode exciter system using same.
98	131288	07-05-1971	Egon Scheubeck of 5 Eichstrasse, Zeitlann, Regensburg, Federal Republic of Germany.	Stage selector for regulating transformer.
99	131290	07-05-1971	Ustav Provyzkum Ruel, Praha 4, Madrausk, 23, Czechoslovakia.	High intensity multizone magnetic separator.
100	131311	11-05-1971	Knapsack AG of Knapsack Near Koln, Federal Republic of Germany.	Electrical production of manganese dioxide in-modification.
101	131328	12-05-1971	Imperial chemical industries limited of Imperial Chemical House, Mill Bank, London SW-1, England.	Bipolar unit for electrolytic cell.
102	131334	12-05-1971	N. V. Phillips GF of Emmansingel, Eindhoven, Netherlands.	Clamping band around the envelope of TV display tube.
103	131480	24-05-1971	Do.	Semiconductor device.
104	131604	04-06-1971	Do.	Magnet cores of soft magnetic ferrite.
105	131698	14-06-1971	Matsushite Electric Industrial Co. Limited, of 1006, Oazo Kadowa Kadamashi, Osaka, Japan.	Dry cells.
106	131822	21-06-1971	N. V. Philips GF of Emmasingel, Eindhoven, Netherlands.	Semiconductor device.
107	131925	30-06-1971	Union Carbide Corporation of 270 Park Avenue, New York, State of New York 10017, U.S.A.	Electrically conductive articles.
108	131943	30-06-1971	Chief Scientists, R&D, of Ministry of Defence, Government of India, New Delhi, India.	Nickel Cadmium cells.
109	131944	29-01-1972	S. V. Padmanabhan of Research, Designs and Standards Organisation (Ministry of Railway), Alambagh, Lucknow-5, India.	Electronic high speed and fail safe latched relay.
110	132277	28-07-1971	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	Primary dry cells.
111	132283	28-07-1971	Burroughs Corporation of 2nd Avenue of Burroughs, Michigan, Detroit, Michigan, 48232, U.S.A.	A display device.
112	132356	03-08-1971	Siemens A. G. of Munchenz 2, West Germany.	Phase modulators.
113	132393	05-08-1971	Transformatoren Union AG of Dechensstrasses, 7 Stufgant Badconnstatt, F.R.G	Protective appliances for liquid cooled electric apparatus especially transformers and choke coils.
114	132455	10-08-1971	Siemens A. G. of Berlin and Munich, West Germany.	Duplex information transmission system.

1	2	3	4	5
115	132466	11-08-1971	General Electric Co. of 1 River Road, Schenectady, New York, U.S.A.	Sintered intermetallic product and magnets produced therefrom.
116	132557	18-08-1971	Butlers Ltd., of Grange Road, Birmingham, England.	Bulb holders.
117	132597	20-08-1971	N. V. Philips GF of Emmasingel 29, Eindhoven, Holland.	Manufacturing a semi conductor device and semiconductor device manufactured by the method.
118	132598	20-08-1971	Do.	Semi conductor device.
119	132599	20-08-1971	Do.	Semi conductor device in particular a monolithic integrated circuit.
120	132600	20-08-1971	Do.	Do.
121	132601	20-08-1971	Do.	Semiconductor device having a transistor
122	132602	20-08-1971	N. V. Philips GF of Emmasingel 29, Eindhoven, Holland.	Semiconductor device in particular integrated monolithic circuit.
123	132733	01-09-1971	RCA Corporation of 30 Rockefeller-plaza, New York, 10020, United States of America.	Making transistors including base sheet resistivity determining step.
124	132746	01-09-1971	N. V. Philips GF of Emmasingel 29, Eindhoven, Holland.	Ferrite cores.
125	132771	03-09-1971	Do.	Device for delaying a train of signal samples of an electrical signal.
126	132977	20-09-1971	Do.	Semiconductor device.
127	133135	06-10-1971	ASEA Aktibolag of vasteras, Sweden,	Switch disconnecter.
128	133173	08-10-1971	Westinghouse Brake & Signal Co. Limited, of 82, Yorkway, Kings Cross, London, W19AJ, England.	Static relaying circuit.
129	133223	12-10-1971	N. V. Philips GF of Emmasingel 29, Eindhoven, Holland.	Cassette.
130	133351	25-10-1971	Matsushita Electric Industrial Co. Limited, of 1006, Oaza, Kadoma, Osaka, Japan.	Variable condensor.
131	133365	26-10-1971	Siemens AG of Berlin and Munich, West Germany.	Deposition of crystalline semiconductor material.
132	133483	04-11-1971	Deere & Co., of moline, Illinois, USA.	Electroless nickelpating.
133	133493	04-11-1971	N. V. Philips GF of Emmasingel, 29, Eindhoven, Holland.	Arrangements for testing the conversion accuracy of a circuit constituted by a analogy-to-digital convertor and a digital-to-analog convertor.
134	133508	05-11-1971	Do.	Manufacturing a semiconductor device having atleast one insulated gate field effect transistor and semiconductor device manufactured using the method.
135	131585	03-06-1971	N. V. Philips GF of Emmasingel 29, Eindhoven, Holland.	Transistor amplifier.
136	133601	12-11-1971	Yorkshire switchgear and engineering Co. Limited, of Grove Mills, Meanwood Road, Meanwood, Leeds LS6 2BN, England.	Electric Circuit breaker.
137	133798	30-11-1971	Imperial Chemical Industries Limited of Millbank, London SW1, England.	Insulated conductor.
138	133858	06-12-1971	N. V. Philips GF of Emmasingel 29, Eindhoven, Holland.	Semi Conductor device.
139	133892	08-12-1971	Do.	Electric discharge vessels.
140	133925	13-12-1971	The English Electric Co. Limited, of Stanhope Gate, London W1A1EH, England.	High Voltage monitoring system.
141	133973	16-12-1971	Siemens AG Berlin and Munich, West Germany.	Making magnetic material laminations.
142	134053	24-12-1971	Joseph Lucas (Industries) Limited, of Great Kings Street, Birmingham, England.	Vehicle Lamps.
143	134082	27-12-1971	N. V. Philips GF of Emmasingel 29, Eindhoven, Holland.	Communication system between two stations.
144	134216	07-01-1972	Joseph Lucas (Ind.) Ltd., of Great Kings Street, Birmingham, England.	Electrical Switches.

1	2	3	4	5
145	134265	12-01-1972	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-61, India.	A strain gauge load cell.
146	134281	14-01-1972	Joseph Lucas (Ind.) of Great Kings Street, Birmingham, England.	Battery charging system for road vehicles.
147	134282	14-01-1972	Do.	Electrical switch and lock for vehicles.
148	134306	18-01-1972	Do.	Electrical switches.
149	134307	18-01-1972	Do.	Cable clip.
150	134312	18-01-1972	Thorn Electrical Industries Limited, of Thorn House, Upper Saint Martin's Lane, London WC 2H 9ED, England.	Tungsten halogen lamp.

#### PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

##### No. & Title of the invention

- 137596 (8-1-74) Process for the preparation of pharmaceutically active new leucosine derivatives.
- 137907 (13-09-72) Preparation of metal salt slurries from metal salt solution.
- 138188 (25-02-75) New process for the preparation of 2-aminomethyl pyrrolidene.
- 138194 (05-05-73) Process for preparing a pesticidal composition.
- 138320 (02-03-74) A process for preparing sulfonylurea derivative.
- 138391 (23-11-72) Process for making magnesias.
- 138419 (15-10-73) Preparation of trisubstituted pyridine derivatives.
- 138423 (30-05-73) Process for preparation of ampicillin derivative substituted by heterocyclic acyl group.
- 138425 (13-07-73) Process for the preparation of azaindole fused heterocycle compound.
- 138426 (13-07-73) Process for the preparation of azaindole fused heterocyclic compound.
- 138427 (13-07-73) Process for the preparation of azaindole fused heterocyclic compound.
- 138428 (13-07-73) Process for the preparation of azaindole fused heterocyclic compound.
- 138587 (04-03-75) Process for the preparation of N-(2-pyrrolidinyl-alkyl) substituted benzamides.
- 138591 (16-04-73) Process for the preparation of substituted phenols.
- 138602 (09-03-73) Method for the preparation of 4-amino quinoline derivative.
- 138609 (07-07-75) Method of preparing antiinflammatory antirheumatic compound.
- 138617 (29-01-74) Process for preparing 3-heterocyclic thiomethyl cephalosporin.

#### RENEWAL FEES PAID

97476 97937 98092 103780 103905 104429 105143 105144  
108890 108967 109034 110361 112691 114024 114035 114524  
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139066 139349 139461 139538 139551 139790 139839 139876  
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142067 142537 142558 142583 142648 142673 142674 142675  
142856 142921 142989 143042 143162 143212 143408 143415  
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113745 134533 134746 134747 134755 134768 134769 134778  
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134861 134862 134863 134868 134876 134891 134899 134900  
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137616 143259 145010 145742

#### RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 109257 granted to KONINKLIJKE INDUSTRIELLE MAATSCHAPPIJ NOURY AND VAN DER LANDE N.V. for an invention relating to "improvements in or relating to organic Peroxydicarbonates". The patent ceased on the 28-2-1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 10-11-1979.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 16th April 1980 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 148209. Agro-Commercial of 13, Ganesh Chandra Avenue, Calcutta-700072, State of West Bengal, India, a proprietorship firm. "Spikes". March 27, 1979.

Class 1. No. 148702. Mrs. Nandini Toraskar, an Indian National of Flat No. 'D', Arsenal Flats, Moledina Road, Pune 411001, State of Maharashtra, India. "Helmet Carrier". July 27, 1979.

Class 1. No. 148714. Syed Maqsood Sabri, an Indian National, trading as : Bharat Stove & Light House,

Chowk Bazar, Roorkee (U.P.), India, Indian National. "Lamp". July 31, 1979.

Class 1. No. 148752. Mrs. Nandini Toraskar, an Indian National of Flat No. 'D', Arsenal Flats, Moledina Road, Pune 411002, State of Maharashtra, India. "Helmet Carrier". August 16, 1979.

Class 1. No. 148772. Pandit Rupla Patil, an Indian Citizen, 38/39 Hadapsar Industrial Estate, Poona-411013, Maharashtra, India. "a Drilling Machine". August 29, 1979.

Class 3. No. 148195. Automat Electronics, 303, Green House, Green Street, Fort, Bombay-400023, Maharashtra State, Indian Partnership Firm. "Gas Lighter". March 26, 1979.

Class 3. No. 148219. Simmi Pharmaceutical Pvt. Ltd., a Private Limited Company, trading as—Marcil Laboratories, of 130/131, Radha Bazar Street, Calcutta-700001, West Bengal. "Container". March 30, 1979.

Class 3. No. 148670. Alliance Plastic Works, an Indian Partnership Firm of P 36, India Exchange Place, 3rd floor, Room No. 46, Calcutta-700001, West Bengal, India. "Multipurpose Toilet Shelf". July 21, 1979.

Class 3. No. 148705. Bagop Electronics, 2, Gita Nagar, Rajkot-2, Gujarat State, an Indian Partnership Firm. "Gas Lighter". July 28, 1979.

Class 3. No. 148724. Mrs. Kamlabai Narayan Rashinkar, 498, Shanwar Peth, Mehunpura, Pune-411030, Maharashtra State, India, an Indian subject. "Dispenser for silver powder and mercury". August 4, 1979.

Class 3. No. 148725. National Plastics Industries, 5, Rewa Chambers, 1st floor, New Marine Lines, Bombay-400020, Maharashtra, an Indian Partnership Firm. "Waste Paper Basket". August 6, 1979.

Class 3. No. 148727. Star Moulders, 229, Adhyaru Industrial Estate, 2nd floor, Sun Mills Compound, Lower Parel, Bombay-400013, Maharashtra, an Indian Partnership Firm. "Bead". August 6, 1979.

Class 3. No. 148728. Sou. Aruna Deodhar, Indian National of 865, Snehbandha, Pune-411004, State of Maharashtra, India. "Zone Reader". August, 1979.

Class 3. No. 148768. Winner Moulders, B-44, Industrial Area Wazirpur, Delhi-110052, an Indian Partnership Concern. "Safety Razor". August 27, 1979.

Class 4. No. 148731. Mohan Meakin Breweries Limited, an Indian Company, Solan Brewery. P.O. 173214, Simla Hills, Himachal Pradesh, India. "Bottle". August 8, 1979.

DR. S. VEDARAMAN,

Controller General of Patents, Designs and Trade Marks.